



MCN340

MCB 3P 6kA C-40A 3M

Technical properties

Type of pole 3 Curve Functions Functions N Configuration N Number of modules Aligned termin Connectivity Aligned termin Top connection alignement for modular Aligned termin Bottom connection alignement for modular Aligned termin Main electrical features Aligned termin Rated short circuit breaking capacity Icn AC according IEC60898-1 6 k Rated operational voltage Ue 230 / 400 Type of supply voltage A Frequency 50/60 F Voltage Au Rated insulation voltage 500 Rated current 400 Electric current 40 Rated service breaking capacity Ics AC according IEC 60898-1 6 k min/maxi threshold value of the AC thermal operation 1.13 / 1.45 I Magnetic regulating current 5 / 10 min/maxi threshold value of the DC thermal operation 7 / 15 min/maxi threshold value of the DC thermal operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF operation 3 k Rated short circuit breaking capacity	Number of protected poles	3
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60947-2 3 k Rated short circuit breaking capacity Icn	min/maxi threshold value of the DC thermal operation	1.13 / 1.45
	Breaking capacity on 1 pole for IT 400V NF 60947-2	3 k
	Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	6 k.

Rated ultimate short-circuit breaking capa- city Icu under 400V AC IEC 60947-2	10 kA
Rated ultimate short-circuit breaking capa- city Icu under 415V AC IEC 60947-2	10 kA
Electric current / temperature	
Rating current -25°C	50 A
Rating current -20°C	49.2 A
Rating current -15°C	48.4 A
Rating current -10°C	47.5 A
Rating current -5°C	46.6 A
Rating current 0°C	45.8 A
Rating current 5°C	44.8 A
Rating current 10°C	43.9 A
Rating current 15°C	43 A
Rating current 20°C	42 A
Rating current 25°C	41 A
Rating current 30°C	40 A
Rating current 35°C	38.8 A
Rating current 40°C	37.5 A
Rating current 45°C	36.2 A
Rating current 50°C	34.8 A
Rating current 55°C	33.4 A

31.9 A

30.3 A

28.6 A

Current correction factors

Rating current 60°C

Rating current 65°C

Rating current 70°C

Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	0.95
Correction factor of rating current for 4 and 5 devices placed side-by-side	0.9
Correction factor of rating current for 6 devices placed side-by-side	0.85
Correction factor of magnetic tripping with 100 Hz	1.1
Correction factor of magnetic tripping with 200 Hz	1.2
Correction factor of magnetic tripping with 400 Hz	1.5
Correction factor of magnetic tripping with 60 Hz	1
Dimensions	
Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	52.5 mm
Frequency	
Frequency	50 to 60 Hz

Power	
Total power loss under IN	16.9 W
Power loss per pole at In	6 W
Endurance	
Electric endurance in number of cycles	4000
Number of mechanical operations	20000
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of Bottom Connection for modular devices	Blconnect
Connection	
Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm²
Standards	
Standard text	EN 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
Use conditions	
Operating temperature	-2570 °C
Class of energy limitation I ² t	3
Altitude	2000 m
Storage/transport temperature	-2580 °C